AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended)   A non-transitory computer readable medium having a data structure for managing reproduction of video data, comprising:

a data ~~area~~ directory storing first video data associated with a main reproduction path and second video data associated with a side reproduction path which is a side path to the main reproduction path;

a playlist ~~area~~ directory storing a first playlist file including a playitem identifying the first video data and a second playlist file including a playitem identifying the second video data; and

a navigation ~~area~~ directory storing a ~~navigation~~ general information file including a first path item including a navigation command executing the first playlist file and a second path item including a navigation command executing the second playlist file, the ~~navigation~~ general information file being separate and having a different file extension from ~~and~~ the playlist files ~~being separate from each other~~, a reproduction of the main reproduction path being suspended during a reproduction of the side reproduction path and resumed at the suspended position after the reproduction of the side reproduction path.

2. (Currently Amended)   The non-transitory computer readable medium of claim 1, wherein the second playlist file is branched from the first playlist file.

3-9. (Cancelled)

10. (Currently Amended)   The non-transitory computer readable medium of claim 1,
wherein the navigation commands included in the first and the second path items are
divided into navigation command groups.

11. (Currently Amended)   The non-transitory computer readable medium of claim 10,
wherein the main reproduction path branches to the side reproduction path.

12-19. (Cancelled)

20. (Currently Amended)   The non-transitory computer readable medium of claim 10,
wherein the first path item and the second path item include a length indicator
indicating a length of the first path item and the second path item, respectively.

21. (Currently Amended)   The non-transitory computer readable medium of claim 10,
wherein the first path item and the second path item include attribute indicators
providing indications of at least one attribute of the first path item and the second
path item, respectively.

22. (Currently Amended)   The non-transitory computer readable medium of claim 10,
wherein the navigation general information file further includes a number of path item
indicators indicating the number of the path item included in the navigation general
information file.

23. (Cancelled)

24. (Currently Amended)   The non-transitory computer readable medium of claim 1, wherein the second path item command resumes reproduction of the main reproduction path after reproduction of the side reproduction path.

25-29. (Cancelled)

30. (Currently Amended)   A method of recording a data structure for managing reproduction of video data on a computer readable medium, comprising:

recording first video data associated with a main reproduction path and second video data associated with a side reproduction path which is a side path to the main reproduction path, a reproduction of the main reproduction path being suspended during a reproduction of the side reproduction path and resumed at the suspended position after the reproduction of the side reproduction path;

recording a first playlist file including a playitem identifying the first video data and a second playlist file including a playitem identifying the second video data in the computer readable medium; and

recording a ~~navigation~~ general information file in the computer readable medium, the ~~navigation~~ general information file including a first path item including a navigation command executing the first playlist file and a second path item including a navigation command executing the second playlist file, the ~~navigation~~ general information file being separate and having a different file extension from ~~and~~ the playlist files ~~being separate from each other~~.

31. (Currently Amended)   A method of reproducing a data structure for managing reproduction of video data recorded on a computer readable medium, comprising:

reading a ~~navigation~~ general information file from the computer readable medium, the ~~navigation~~ general information file including a first path item including a navigation command executing a first playlist file and a second path item including a navigation command executing a second playlist file;

reading the first path item;

reading the first playlist file executed by the first path item from the computer readable medium, the first playlist file including a playitem identifying a first video data associated with a main reproduction path;

reading the first video data identified by the first playlist file from the computer readable medium;

reading the second path item;

reading the second playlist file executed by the second path item, the second playlist file including a playitem identifying a second video data associated with a side reproduction path which is a side path to the main reproduction path, the ~~navigation~~ general information file being separate and having a different file extension from ~~and~~ the playlist files ~~being separate from each other~~;

reproducing the second video identified by the second playlist file, a reproduction of the main reproduction path being suspended during a reproduction of the side reproduction path; and

resuming the reproduction of the main reproduction path at the suspended position after the reproduction of the side reproduction path.

32. (Currently Amended)   An apparatus for recording a data structure for managing reproduction of video data on a computer readable medium, comprising:

a recording device configured to record data on the computer readable medium; and

a controller configured to control the recording device to record first video data associated with a main reproduction path and second video data associated with a side reproduction path which is a side path to the main reproduction path, a reproduction of the main reproduction path being suspended during a reproduction of the side reproduction path and resumed at the suspended position after the reproduction of the side reproduction path,

wherein the controller is further configured to control a recording device to record a first playlist file including a playitem identifying the first video data and a second playlist file including a playitem identifying the second video data the computer readable medium and to record a ~~navigation~~ general information file in the computer readable medium, the ~~navigation~~ general information file including a first path item including a navigation command executing the first playlist file and a second path item including a navigation command for executing the second playlist file, the ~~navigation~~ general information file being separate and having a different file extension from ~~and~~ the playlist files ~~being separate from each other~~.

33. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of video data recorded on a computer readable medium, comprising:

a reproducing device configured to reproduce data recorded on the computer readable medium;

a controller configured to control the reproducing device to reproduce a ~~navigation~~ general information file from the computer readable medium, the ~~navigation~~ general information file including a first path item including a navigation command executing a first playlist file and a second path item including a navigation command executing a second playlist file,

wherein the controller is further configured to control a reproducing device to reproduce the first path item,

to reproduce the first playlist file executed by the first path item from a computer readable medium, the first playlist file including a playitem identifying a first video data associated with a main reproduction path of the video data,

to reproduce the first video data identified by the first playlist file from a computer readable medium,

to reproduce the second path item, to reproduce the second playlist file executed by the second path item, the second playlist file including a playitem identifying a second video data associated with a side reproduction path which is a side path to the main reproduction path,

to reproduce the second video data identified by the second playlist file, a reproduction of the main reproduction path being suspended during a reproduction of the side reproduction path, and

to resume the reproduction of the main reproduction path at the suspended position after the reproduction of the side reproduction path, the ~~navigation~~ general information file being separate and having a different file extension from ~~and~~ the playlist files ~~being separate from each other~~.

34. (Previously Presented) The method of claim 30, wherein the second playlist file is branched from the first playlist file.

35. (Cancelled)

36. (Previously Presented) The method of claim 30, wherein the main reproduction path branches to the side reproduction path.

37. (Previously Presented) The method of 30, wherein the first path item resumes reproduction of the main reproduction path after reproduction of the side reproduction path.

38. (Previously Presented) The method of claim 31, wherein the second playlist file is branched from the first playlist file.

39. (Cancelled)

40. (Previously Presented) The method of claim 31, wherein the main reproduction path branches to the side reproduction path.

41. (Previously Presented) The method of 31, wherein the first path item resumes reproduction of the main reproduction path after reproduction of the side reproduction path.

42. (Previously Presented) The apparatus of claim 32, wherein the second playlist file is branched from the first playlist file.

43. (Cancelled)

44. (Previously Presented) The apparatus of claim 32, wherein the main reproduction path branches to the side reproduction path.

45. (Previously Presented) The apparatus of 32, wherein the first path item resumes reproduction of the main reproduction path after reproduction of the side reproduction path.

46. (Previously Presented) The apparatus of claim 33, wherein the second playlist file is branched from the first playlist file.

47. (Cancelled)

48. (Previously Presented) The apparatus of claim 33, wherein the main reproduction path branches to the side reproduction path.

49. (Previously Presented) The apparatus of 33, wherein the first path item resumes reproduction of the main reproduction path after reproduction of the side reproduction path.